

REMARKS

Claims 1 - 22 are pending in the present application. Claims 15 - 22 were withdrawn from prosecution (pursuant to a response to a Restriction Requirement submitted concurrently herewith), and hereby cancelled without prejudice. Claims 4, 9, and 10 have been amended and Claims 23 - 28 have been added, leaving Claims 1 - 14 and 23 - 28 for consideration upon entering the present amendment. Claims 4, 9, and 10 have been amended to correct the dependency of Claims 9 and 10, and to correct typographical errors. Claims 23 - 28 have been added to further claim the present invention. Support for Claims 23 - 28 can be found in the specification, figures, and claims as originally filed. For example, support can be found in Claims 1, 5, 10, and 14, in the specification on Pages 7 and 8, and in Figures 4 and 5, as well as elsewhere. The specification has been amended to correct typographical and grammatical errors. No new matter has been added.

If there are any charges with respect to this Restriction Requirement, or otherwise, please charge them to Deposit Account No. 50-0831 maintained by Assignee.

Respectfully submitted,

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IN THE SPECIFICATION: Please amend the specification as follows, illustrated below in "marked-up" format:

Page 4, lines 2 - 10:

The present invention provides an effective procedure for manufacture of a catalytic converter with an end plate design incorporating full insulation of end plenum areas. Such insulation serves dual purposes. First, end plenum insulation precludes conserves heat such that the operating temperature for the catalyst substrate is more easily obtained and maintained. Second, end plenum insulation reduces operating skin temperature, thereby precluding heat damage to parts external to the insulating material. As a further benefit, the device is readily manufactured using inexpensive components and providing a simple package with long durability.

Page 5, lines 20 - 29:

The particularly preferred structural support for securing an end plate 30 to a substrate 20 prior to size reduction of an outer shell 50 to the assembly is a securing mechanism 32 affixed to an inner side of the end plate. The securing mechanism 32 is made of a material suitable for use in high temperature environments and is of a diameter greater than that of the catalyst substrate 20. This allows for the securing mechanism 32, which can have any appropriate geometry such as annular, conical, cylindrical or other, to extend around an annular end portion of the substrate 20, as is shown in Figure 1, forming a gas shield to protect optional insulation material in the annulus of the plenum area.

Page 6, lines 7 - 16:

Figures 2 and 3 show a preferred shape and design for end plates used with the present invention. The catalytic converter design of the present invention advantageously allows for construction of a compact, cleanly assembled converter using the preferred, flat end plates. Each of these preferred endplates has, defined at any point within the plate, a hole 34 for connection with exhaust piping (not shown) carrying exhaust gasses. Further, each endplate preferably has, welded or otherwise permanently affixed to an outer periphery of one side of the flat end plate, an annular ring 32. In this, annular ring 32 may be affixed to an endplate by any known method, but is preferably securely affixed by tack welding.

IN THE CLAIMS: Please amend Claims 4, 9, and 10 as follows, illustrated below in "marked-up" format:

4. (Amended) The exhaust system converter of claim 3, wherein said annular rings are ~~are~~ is welded to said first endplates.

9. (Amended) The exhaust system converter of claim 38, wherein said annular rings are ~~are~~ is welded to said second endplates.

10. (Amended) The exhaust system converter of claim 38, wherein said mat support substantially covers said catalyst and said annular rings.